=> d his

```
(FILE 'HOME' ENTERED AT 15:33:42 ON 11 OCT 2005)
                SET COST OFF
     FILE 'HCAPLUS' ENTERED AT 15:33:52 ON 11 OCT 2005
L1
              1 S US20020155991/PN OR (US2002-086451# OR FR2001-2979)/AP,PRN
                E PHILIPPE M/AU
1.2
            326 S E3-E5, E25-E27
                E PHILIPE M/AU
                E PHILLIPPE M/AU
1.3
             14 S E3-E5, E8
                E PHILLIPE M/AU
                E BENARD S/AU
             15 S E3,E7
L4
L5
           4933 S (OREAL? OR LOREAL? OR L()OREAL?)/PA,CS
                SEL RN L1
     FILE 'REGISTRY' ENTERED AT 15:36:07 ON 11 OCT 2005
              8 S E1-E8
L6
                SEL RN 5-8
L7
              4 S L6 NOT E9-E12
1.8
              3 S (D-TYROSINE OR L-TYROSINE OR DL-TYROSINE)/CN
                SEL RN
            335 S E13-E15/CRN
T.9
L10
            146 S L9 AND PMS/CI
L11
              1 S L10 AND CH40
L12
             43 S C3H7NO2 AND L10
              2 S L12 NOT ALANINE
L13
L14
              4 S L10 AND C2H5NO2
L15
              6 S L10 AND C9H11NO3 AND 1/NC
L16
             43 S L10 AND 2/NC
L17
             54 S L10 NOT L11-L16
                E (C9H9NO2)/MF
L18
             17 S E5
                SEL RN 14 15 17
L19
              3 S E1-E3
                E (C9H9NO2)/MF
L20
              2 S E6,E7
L21
             12 S L11, L13, L15, L19
     FILE 'HCAPLUS' ENTERED AT 15:53:55 ON 11 OCT 2005
L22
            265 S L21
              4 S L22 AND L1-L5
L23
=> fil reg
FILE 'REGISTRY' ENTERED AT 15:54:33 ON 11 OCT 2005
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```

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STRUCTURE FILE UPDATES: 10 OCT 2005 HIGHEST RN 864908-12-3 DICTIONARY FILE UPDATES: 10 OCT 2005 HIGHEST RN 864908-12-3

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

```
******************
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,
* effective March 20, 2005. A new display format, IDERL, is now
st available and contains the CA role and document type information. st
******************
Structure search iteration limits have been increased. See HELP SLIMITS
for details.
REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:
http://www.cas.org/ONLINE/UG/regprops.html
=> d ide can tot 121
L21 ANSWER 1 OF 12 REGISTRY COPYRIGHT 2005 ACS on STN
RN
    462117-51-7 REGISTRY
ED
    Entered STN: 17 Oct 2002
CN
    L-Tyrosine, homopolymer, methyl ester (9CI) (CA INDEX NAME)
FS
    STEREOSEARCH
    (C9 H11 N O3) \times . C H4 O
MF
    Polyamide, Polyamide formed, Polyester, Polyester formed
PCT
SR
LC
    STN Files:
                CA, CAPLUS, USPATFULL
**RELATED POLYMERS AVAILABLE WITH POLYLINK**
    CM
         1
    CRN 67-56-1
    CMF C H4 O
H3C-OH
    CM
    CRN 25619-78-7
    CMF
         (C9 H11 N O3)x
    CCI PMS
         CM
             3
```

Absolute stereochemistry. Rotation (-).

CRN 60-18-4 CMF C9 H11 N O3

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:221793

L21 ANSWER 2 OF 12 REGISTRY COPYRIGHT 2005 ACS on STN

RN 457625-05-7 REGISTRY

ED Entered STN: 01 Oct 2002

CN L-Tyrosine, polymer with L-lysine and N-methylglycine (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF (C9 H11 N O3 . C6 H14 N2 O2 . C3 H7 N O2) \times

CI PMS

PCT Polyamide, Polyamide formed, Polyester, Polyester formed

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 107-97-1 CMF C3 H7 N O2

MeNH-CH2-CO2H

CM 2

CRN 60-18-4 CMF C9 H11 N O3

Absolute stereochemistry. Rotation (-).

CM 3

CRN 56-87-1

CMF C6 H14 N2 O2

Absolute stereochemistry.

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:221793

L21 ANSWER 3 OF 12 REGISTRY COPYRIGHT 2005 ACS on STN

RN 457625-04-6 REGISTRY

ED Entered STN: 01 Oct 2002

CN L-Tyrosine, polymer with N-methylglycine (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF (C9 H11 N O3 . C3 H7 N O2) \times

CI PMS

PCT Polyamide, Polyamide formed, Polyester, Polyester formed

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 107-97-1 CMF C3 H7 N O2

MeNH-CH2-CO2H

CM 2

CRN 60-18-4 CMF C9 H11 N O3

Absolute stereochemistry. Rotation (-).

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:221793

L21 ANSWER 4 OF 12 REGISTRY COPYRIGHT 2005 ACS on STN

RN 142847-49-2 REGISTRY

ED Entered STN: 07 Aug 1992

CN L-Tyrosine, hexamer (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF (C9 H11 N O3)6

CI PMS

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 60-18-4 CMF C9 H11 N O3

Absolute stereochemistry. Rotation (-).

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:252981

REFERENCE 2: 117:90965

L21 ANSWER 5 OF 12 REGISTRY COPYRIGHT 2005 ACS on STN

RN 142847-48-1 REGISTRY

ED Entered STN: 07 Aug 1992

CN L-Tyrosine, trimer (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF (C9 H11 N O3)3

CI PMS

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 60-18-4

CMF C9 H11 N O3

Absolute stereochemistry. Rotation (-).

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 117:90965

L21 ANSWER 6 OF 12 REGISTRY COPYRIGHT 2005 ACS on STN

RN 32109-39-0 REGISTRY

ED Entered STN: 16 Nov 1984

CN Poly[imino[(1R)-1-[(4-hydroxyphenyl)methyl]-2-oxo-1,2-ethanediyl]] (9CI)

(CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Poly[iminocarbonyl(p-hydroxyphenethylidene)], D- (8CI)

MF (C9 H9 N O2) n

CI PMS

PCT Polyamide

LC STN Files: CA, CAPLUS

RELATED POLYMERS AVAILABLE WITH POLYLINK

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 75:71444

REFERENCE 2: 67:52214

L21 ANSWER 7 OF 12 REGISTRY COPYRIGHT 2005 ACS on STN

RN 31724-37-5 REGISTRY

ED Entered STN: 16 Nov 1984

CN Poly[imino[1-[(4-hydroxyphenyl)methyl]-2-oxo-1,2-ethanediyl]] (9CI) (CA

INDEX NAME)

OTHER CA INDEX NAMES:

CN Poly[iminocarbonyl(p-hydroxyphenethylidene)], DL- (8CI)

MF (C9 H9 N O2)n

CI PMS

PCT Polyamide

LC STN Files: ANABSTR, CA, CAPLUS, MEDLINE

RELATED POLYMERS AVAILABLE WITH POLYLINK

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 74:60908

REFERENCE 2: 66:74411

L21 ANSWER 8 OF 12 REGISTRY COPYRIGHT 2005 ACS on STN

RN 31630-26-9 REGISTRY

ED Entered STN: 16 Nov 1984

CN Tyrosine, DL-, peptides (8CI) (CA INDEX NAME)

jan delaval - 11 october 2005

OTHER NAMES:

CN Poly-DL-tyrosine

MF (C9 H11 N O3)x

CI PMS

PCT Polyamide, Polyamide formed, Polyester, Polyester formed

LC STN Files: CA, CAPLUS

RELATED POLYMERS AVAILABLE WITH POLYLINK

CM 1

CRN 556-03-6 CMF C9 H11 N O3

$$\begin{array}{c|c} & \text{NH}_2 \\ | & \\ \text{CH}_2 - \text{CH} - \text{CO}_2 \text{H} \end{array}$$

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 74:60908

L21 ANSWER 9 OF 12 REGISTRY COPYRIGHT 2005 ACS on STN

RN 30704-25-7 REGISTRY

ED Entered STN: 16 Nov 1984

CN D-Tyrosine, homopolymer (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Tyrosine, D-, peptides (8CI)

OTHER NAMES:

CN Poly-D-tyrosine

FS STEREOSEARCH

MF (C9 H11 N O3)x

CI PMS

PCT Polyamide, Polyamide formed

LC STN Files: CA, CAPLUS, CHEMCATS, CSCHEM, MSDS-OHS

RELATED POLYMERS AVAILABLE WITH POLYLINK

CM 1

CRN 556-02-5

CMF C9 H11 N O3

Absolute stereochemistry.

- 4 REFERENCES IN FILE CA (1907 TO DATE)
- 4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

```
REFERENCE 1: 117:65865
```

REFERENCE 2: 117:43790

REFERENCE 3: 75:71444

REFERENCE 4: 67:52214

L21 ANSWER 10 OF 12 REGISTRY COPYRIGHT 2005 ACS on STN

RN 30442-80-9 REGISTRY

ED Entered STN: 16 Nov 1984

CN L-Tyrosine, dimer (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Tyrosine, L-, dimer (8CI)

FS STEREOSEARCH

DR 27476-39-7

MF (C9 H11 N O3)2

CI PMS

LC STN Files: CA, CAPLUS

CM 1

CRN 60-18-4

CMF C9 H11 N O3

Absolute stereochemistry. Rotation (-).

5 REFERENCES IN FILE CA (1907 TO DATE)

5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:109944

REFERENCE 2: 117:90965

REFERENCE 3: 74:150934

REFERENCE 4: 68:75092

REFERENCE 5: 66:103159

L21 ANSWER 11 OF 12 REGISTRY COPYRIGHT 2005 ACS on STN

RN 25667-16-7 REGISTRY

ED Entered STN: 16 Nov 1984

CN Poly[imino[(1S)-1-[(4-hydroxyphenyl)methyl]-2-oxo-1,2-ethanediyl]] (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Poly[iminocarbonyl(p-hydroxyphenethylidene)], L- (8CI)

CN Poly[imino[1-[(4-hydroxyphenyl)methyl]-2-oxo-1,2-ethanediyl]], (S)-OTHER NAMES:

CN L-Tyrosine polymer, SRU

CN Poly(L-tyrosine), SRU

CN Polytyrosine

CN Polytyrosine, SRU

DR 26634-77-5, 439295-29-1

MF (C9 H9 N O2) n

CI PMS

PCT Polyamide

LC STN Files: BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAPLUS, EMBASE, TOXCENTER, USPAT2, USPATFULL

RELATED POLYMERS AVAILABLE WITH POLYLINK

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

192 REFERENCES IN FILE CA (1907 TO DATE)

22 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

192 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:286003

REFERENCE 2: 143:281777

REFERENCE 3: 143:235397

REFERENCE 4: 143:60253

REFERENCE 5: 143:48209

REFERENCE 6: 143:22438

REFERENCE 7: 142:458269

REFERENCE 8: 142:417211

REFERENCE 9: 142:406011

REFERENCE 10: 142:246307

L21 ANSWER 12 OF 12 REGISTRY COPYRIGHT 2005 ACS on STN

RN 25619-78-7 REGISTRY

ED Entered STN: 16 Nov 1984

CN L-Tyrosine, homopolymer (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Tyrosine, L-, peptides (8CI)

OTHER NAMES:

CN L-Tyrosine polymer

CN Poly(L-tyrosine)

CN Polytyrosine

CN Tyrosine homopolymer

FS STEREOSEARCH

MF (C9 H11 N O3)x

CI PMS, COM

PCT Polyamide, Polyamide formed, Polyester, Polyester formed
LC STN Files: ADISNEWS, AGRICOLA, BIOBUSINESS, BIOSIS, BIOTECHNO, CA,
CAPLUS, CHEMCATS, CIN, CSCHEM, DIOGENES, EMBASE, IPA, MEDLINE, MSDS-OHS,
NIOSHTIC, PIRA, PROMT, TOXCENTER, TULSA, USPAT2, USPATFULL

RELATED POLYMERS AVAILABLE WITH POLYLINK

CM 1

CRN 60-18-4 CMF C9 H11 N O3

Absolute stereochemistry. Rotation (-).

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

245 REFERENCES IN FILE CA (1907 TO DATE)
23 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
245 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:281777

REFERENCE 2: 143:235397

REFERENCE 3: 143:60253

REFERENCE 4: 143:48209

REFERENCE 5: 143:22438

REFERENCE 6: 143:3528

REFERENCE 7: 142:458269

REFERENCE 8: 142:417211

REFERENCE 9: 142:406011

REFERENCE 10: 142:356632

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FILE COVERS 1907 - 11 Oct 2005 VOL 143 ISS 16 FILE LAST UPDATED: 10 Oct 2005 (20051010/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d all hitstr tot

- L23 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN
- 2002:693115 HCAPLUS AN
- 137:221793 DN
- ED Entered STN: 13 Sep 2002
- Antiwrinkle cosmetic composition containing a derivative of polyamino TI acids,
- IN Philippe, Michel; Benard, Sylvie
- PΑ L'Oreal, Fr.
- SO Eur. Pat. Appl., 13 pp.
 - CODEN: EPXXDW
- Patent DT
- LΑ French
- ICM A61K007-48 IC
- 62-4 (Essential Oils and Cosmetics) CC Section cross-reference(s): 34

FAN.CNT 1

	PATENT NO.	KIND DATE	APPLICATION NO.	DATE
ΡI	EP 1238655	A1 20020911	EP 2002-290454	20020225 <
	R: AT, BE, CH,	DE, DK, ES, FR,	GB, GR, IT, LI, LU, NL,	SE, MC, PT,
	IE, SI, LT,	LV, FI, RO, MK,	CY, AL, TR	
	FR 2821550	A1 20020906	FR 2001-2979	20010305 <
	FR 2821550	B1 20040423		
	CA 2374147	AA 20020905	CA 2002-2374147	20020304 <
	US 2002155991	A1 20021024	US 2002-86451	20020304 <
	JP 2002255732	A2 20020911	JP 2002-59518	- 20020305 <
PRAI	FR 2001-2979	A 20010305	<	

CLASS

CLASS PATENT FAMILY CLASSIFICATION CODES PATENT NO. EP 1238655 ICM A61K007-48

US 2002155991 NCL 514/002.000

Antiwrinkle cosmetics containing polyamino acids are prepared (Markush

structure

given). N-carboxyanhydride tyrosine 20, sodium methylate in methanol 0.51 g, and THF 200 mL were mixed and heated for 6 h at 60° to obtain a polyamino acid (yield 96%). Formulation of an antiwrinkle cream containing 7% of above polyamino acid is disclosed.

- STpolyamino acid skin wrinkle cosmetic
- DNA IT

Lactalbumins

Protein hydrolyzates

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

```
(antiwrinkle cosmetic composition containing derivative of polyamino acids,)
IT
     Cosmetics
        (creams, wrinkle-preventing; antiwrinkle cosmetic composition containing
derivative
        of polyamino acids,)
TΤ
     Polyamides, biological studies
     RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological
     study); PREP (Preparation); USES (Uses)
        (poly(amino acids); antiwrinkle cosmetic composition containing derivative
of
        polyamino acids,)
TΤ
     Proteins
     RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
        (soybean; antiwrinkle cosmetic composition containing derivative of
polyamino
        acids,)
IT
     Cosmetics
        (wrinkle-preventing; antiwrinkle cosmetic composition containing derivative
of
        polyamino acids,)
IΤ
     462117-51-7P
     RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological
     study); PREP (Preparation); USES (Uses)
        (antiwrinkle cosmetic composition containing derivative of polyamino acids)
TT
     457625-03-5P 457625-04-6P 457625-05-7P
     RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological
     study); PREP (Preparation); USES (Uses)
        (antiwrinkle cosmetic composition containing derivative of polyamino acids,)
IT
     56-87-1, Lysine, reactions
                                 124-41-4, Sodium methylate
     5840-76-6
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (antiwrinkle cosmetic composition containing derivative of polyamino acids,)
RE.CNT
              THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Bakhoo, M; US 5629282 A 1997 HCAPLUS
(2) Gibbons, W; GB 2217319 A 1989 HCAPLUS
(3) Lion Corp; DE 3724460 A 1988 HCAPLUS
(4) Th Goldschmidt Ag; EP 0958811 A 1999 HCAPLUS
(5) Th Goldschmidt Ag; EP 0959092 A 1999 HCAPLUS
(6) Unilever Plc; WO 9937279 A 1999 HCAPLUS
     462117-51-7P
     RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological
     study); PREP (Preparation); USES (Uses)
        (antiwrinkle cosmetic composition containing derivative of polyamino acids)
RN
     462117-51-7 HCAPLUS
     L-Tyrosine, homopolymer, methyl ester (9CI) (CA INDEX NAME)
CN
     CM
     CRN 67-56-1
     CMF C H4 O
H_3C-OH
     CM
          2
     CRN 25619-78-7
```

CMF (C9 H11 N O3)x

CCI PMS

CM 3

CRN 60-18-4 CMF C9 H11 N O3

Absolute stereochemistry. Rotation (-).

IT 457625-04-6P 457625-05-7P

RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(antiwrinkle cosmetic composition containing derivative of polyamino acids,)

RN 457625-04-6 HCAPLUS

CN L-Tyrosine, polymer with N-methylglycine (9CI) (CA INDEX NAME)

CM 1

CRN 107-97-1 CMF C3 H7 N O2

 $MeNH-CH_2-CO_2H$

CM 2

CRN 60-18-4 CMF C9 H11 N O3

Absolute stereochemistry. Rotation (-).

RN 457625-05-7 HCAPLUS

CN L-Tyrosine, polymer with L-lysine and N-methylglycine (9CI) (CA INDEX NAME)

CM 1

CRN 107-97-1 CMF C3 H7 N O2

 $MeNH-CH_2-CO_2H$

CM 2

CRN 60-18-4 CMF C9 H11 N O3

Absolute stereochemistry. Rotation (-).

CM 3

CRN 56-87-1 CMF C6 H14 N2 O2

Absolute stereochemistry.

L23 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1995:336742 HCAPLUS

DN 122:114632

ED Entered STN: 07 Feb 1995

TI Preparation of a melanin pigment with a small grain size and its use in cosmetics

IN Giacomoni, Paolo; Marrot, Laurent; Mellul, Myriam; Colette, Annick

PA Oreal S. A., Fr.

SO PCT Int. Appl., 27 pp.

CODEN: PIXXD2

DT Patent

LA French

IC ICM C09B067-54

ICS A61K007-00; A61K007-42; A61K007-13

CC 62-4 (Essential Oils and Cosmetics)

Section cross-reference(s): 41

FAN.CNT 1

PAN.	CNT I			
	PATENT NO.	KIND DATE	APPLICATION NO.	DATE
ΡI	WO 9425531	A1 19941110	WO 1994-FR467	19940426
	W: CA, JP, US	5		
	RW: AT, BE, CI	H, DE, DK, ES, FR,	GB, GR, IE, IT, LU, MC,	NL, PT, SE
	FR 2704554	A1 . 19941104	FR 1993-4960	19930427
	FR 2704554	B1 19950713		
	CA 2139115	AA 19941110	CA 1994-2139115	19940426
	EP 647255	`A1 19950412	EP 1994-914441	19940426
	EP 647255	B1 19991215		
	R: DE, ES, FI	R, GB, IT		
	JP 07508554	T2 19950921	JP 1994-523952	19940426

```
PRAI FR 1993-4960 A 19930427
WO 1994-FR467 W 19940426
CLASS
PATENT NO CLASS DATENT FAMILY CL
```

FR 2704554 ECLA A61K007/42P10; A61K007/48Z3B; A61K008/41F; A61Q005/10; C09B067/00S

OS MARPAT 122:114632

AB A melanin pigment is prepared with a very small grain size, 100% of the particles having a grain size <1 µm, for use in cosmetic compns. and in hair dyeing. The process consists in solubilizing a natural or synthetic melanin in an aqueous medium containing ≥1 alkalinizing agent and/or ≥1 sequestering agent and in precipitating the solubilized melanin by adding ≥1 alkaline earth metal salt. Thus, a melanin produced by oxidative polymerization of 5,6-dihydroxyindole was solubilized by stirring in 0.1N NaOH for 24 h and precipitated by adding MgCl2. This precipitate (mean particle

size 350 nm) 5 was formulated with ethoxylated laurylsorbitan 1.5, propylene glycol 5.0, poly(vinyl alc.) 20.0, ultramarine 20.0, EtOH 5.0, preservative 5.0, and water to 100.0 g for use as an eye liner.

ST melanin prepn cosmetic; hair dye melanin

IT Hair

ΙT

Sepiidae

(melanin from; preparation of melanin pigment with small grain size for use in cosmetics)

IT Cosmetics

(preparation of melanin pigment with small grain size for use in cosmetics) Melanins

RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of melanin pigment with small grain size for use in cosmetics)

IT Sequestering agents

(solubilizers; preparation of melanin pigment with small grain size for use in cosmetics)

IT Bases, uses

RL: MOA (Modifier or additive use); USES (Uses)

(solubilizers; preparation of melanin pigment with small grain size for use in cosmetics)

IT Hair preparations

(dyes, preparation of melanin pigment with small grain size for use in cosmetics)

IT Cosmetics

(eye liners, preparation of melanin pigment with small grain size for use in cosmetics)

IT Cosmetics

(mascaras, preparation of melanin pigment with small grain size for use in cosmetics)

IT Cosmetics

(nail lacquers, preparation of melanin pigment with small grain size for use in cosmetics)

IT Alkaline earth compounds

RL: TEM (Technical or engineered material use); USES (Uses) (salts, precipitants; preparation of melanin pigment with small grain size for use in cosmetics)

IT 7786-30-3, Magnesium chloride, uses 10043-52-4, Calcium chloride, uses
RL: TEM (Technical or engineered material use); USES (Uses)

(precipitant; preparation of melanin pigment with small grain size for use in cosmetics)

IT **25619-78-7P**, Tyrosine homopolymer 25656-67-1P

RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of melanin pigment with small grain size for use in cosmetics)

IT 60-00-4, EDTA, uses 67-43-6, DTPA 71-00-1, Histidine, uses 77-92-9, Citric acid, uses 1310-73-2, Sodium hydroxide, uses 1429-50-1,

Ethylenediaminetetramethylenephosphonic acid 160728-82-5

RL: MOA (Modifier or additive use); USES (Uses)

(solubilizer; preparation of melanin pigment with small grain size for use in cosmetics)

IT 25619-78-7P, Tyrosine homopolymer

RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of melanin pigment with small grain size for use in cosmetics)

RN 25619-78-7 HCAPLUS

CN L-Tyrosine, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 60-18-4 CMF C9 H11 N O3

Absolute stereochemistry. Rotation (-).

L23 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1991:171043 HCAPLUS

DN 114:171043

ED Entered STN: 03 May 1991

TI Cosmetic and pharmaceutical foams

IN Griat, Jacqueline; Ayache, Liliane

PA Oreal S. A., Fr.

SO Eur. Pat. Appl., 10 pp.

CODEN: EPXXDW

DT Patent

LA French

IC ICM A61K007-00

ICS A61K009-127

CC 62-4 (Essential Oils and Cosmetics)

Section cross-reference(s): 63

FAN.CNT 1

		_														
	PAT	CENT :	NO.			KINI)	DATE	i	API	PLICAT	'ION	NO.		DATE	
			- -				•						-			- -
PI	ΕP	3826	19			A1		1990	0816	EP	1990-	4003	07		199002	05
	ΕP	3826	19			B1		1992	0506							
		R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB, GF	R, IT,	LI,	NL,	SE		
	ΑT	7560	0			E		1992	0515	AT	1990-	4003	07		199002	05
	ES	2016	788			T3		1993	0616	ES	1990-	4003	07		199002	05
	US	5171	577			Α		1992	1215	US	1990-	4743	99		199002	06
	CA	2009	607			AA		1990	0809	CA	1990-	2009	607		199002	80
	ΑU	9049	170			A1		1990	0816	AU	1990-	4917	0		199002	80

```
AU 619077
                         B2
                               19920116
                        A2
     JP 03020214
                                                                  19900209
                               19910129
                                           JP 1990-28633
PRAI LU 1989-87449
                        Α
                               19890209
                               19900205
    EP 1990-400307
                         Α
CLASS
                CLASS PATENT FAMILY CLASSIFICATION CODES
PATENT NO.
                ----
 -----
                       _______
EP 382619
                ICM
                       A61K007-00
                ICS
                       A61K009-127
US 5171577
               NCL
                       424/450.000; 264/004.600; 424/047.000; 424/065.000;
                       424/073.000; 424/076.300; 424/094.300; 424/283.100;
                       424/401.000; 424/405.000; 424/420.000; 424/750.000;
                       424/758.000; 424/764.000; 424/765.000; 424/776.000;
                       514/945.000
OS
    MARPAT 114:171043
AB
    The title foam comprises a stabilized dispersion of niosomes and a
    propellant. A niosome dispersion was made of 3-(hexadecyloxy)propane-1,2-
     diol 3.6, cholesterol 3.6, palmitic acid collagen derivative 0.8, Me
     p-hydroxybenzoate 0.3, glycerin 3.0, and water 35.5g. Sesame oil 15 and
     perfume 0.4g was added to the above niosome dispersion, followed by the
     addition of Carbopol 940 0.4, triethanolamine 0.4, and water 37.0 g. A
     cosmetic foam contained above composition 70, and a mixture of propellant
containing
    butane, propane, isobutane (25:20:55) 30%.
ST
    pharmaceutical cosmetic foam niosome dispersion
IT
    Antiperspirants
    Astringents
    Deodorants
    Perfumes and Essences
        (cosmetic foams containing)
IT
    Bactericides, Disinfectants, and Antiseptics
    Coloring materials
     Fungicides and Fungistats
     Oxidizing agents
    Reducing agents
    Albumins, biological studies
    Alcohols, biological studies
    Amines, biological studies
    Corn oil
    Esters, biological studies
    Glycols, biological studies
    Lipoproteins
     Polyamides, biological studies
     Polyethers, biological studies
     Quaternary ammonium compounds, biological studies
    Retinoids
    Siloxanes and Silicones, biological studies
    Soybean oil
    Sunflower oil
    RL: BIOL (Biological study)
        (cosmetic or pharmaceutical foams containing)
IT
    Antibiotics
    Inflammation inhibitors
    Vaccines
    Enzymes
    Hormones
    Vitamins
    RL: BIOL (Biological study)
        (pharmaceutical foams containing)
```

IT

Alcohols, esters

```
RL: BIOL (Biological study)
        (amino, esters, cosmetic or pharmaceutical foams containing)
IT
     Oils, glyceridic
     RL: BIOL (Biological study)
        (borage seed, cosmetic or pharmaceutical foams containing)
TΤ
     Cosmetics
        (depilatories, foams containing)
TΤ
     Aldehydes, biological studies
     RL: BIOL (Biological study)
        (di-, cosmetic or pharmaceutical foams containing)
IT
     Alcohols, esters
     RL: BIOL (Biological study)
        (fatty, esters, cosmetic or pharmaceutical foams containing)
     Amines, compounds
TT
     RL: BIOL (Biological study)
        (fatty, ethoxylated, cosmetic or pharmaceutical foams containing)
IT
     Cosmetics
     Pharmaceutical dosage forms
        (foams, niosomes in)
IT
     Oils, glyceridic
     RL: BIOL (Biological study)
        (grape seed, cosmetic or pharmaceutical foams containing)
IT
     Hair preparations
        (growth stimulants, foams containing)
     Hydrocarbons, biological studies
IT
     RL: BIOL (Biological study)
        (halo, cosmetic or pharmaceutical foams containing)
IT
     Collagens, compounds
     Gelatins, compounds
     Lactalbumins
     RL: BIOL (Biological study)
        (hydrolyzates, cosmetic or pharmaceutical foams containing)
IT
     Steroids, biological studies
     RL: BIOL (Biological study)
        (hydroxy, cosmetic or pharmaceutical foams containing)
     Oils, glyceridic
IT
     RL: BIOL (Biological study)
        (macadamia nut, cosmetic or pharmaceutical foams containing)
IT
     Collagens, compounds
     RL: BIOL (Biological study)
        (reaction products, with palmitic acid, cosmetic or pharmaceutical
        foams containing)
     Oils, glyceridic
IT
     RL: BIOL (Biological study)
        (sesame, cosmetic or pharmaceutical foams containing)
     Sunburn and Suntan
IT
        (sunscreens, cosmetic foams containing)
     Sunburn and Suntan
IT
        (suntanning agents, cosmetic foams containing)
IT
     Lactalbumins
     RL: BIOL (Biological study)
        (\alpha-, cosmetic or pharmaceutical foams containing)
IT
     50-70-4, D-Glucitol, biological studies 56-81-5, 1,2,3-Propanetriol,
     biological studies 56-81-5D, 1,2,3-Propanetriol, C6-8 esters
     Glyceraldehyde
                      57-10-3D, Palmitic acid, reaction products with collagens
     87-89-8, Inositol 96-26-4, Dihydroxy acetone
                                                      98-79-3, Pyrrolidone
     carboxylic acid 98-79-3D, Pyrrolidone carboxylic acid, salts
     biological studies 311-89-7, Perfluorotributylamine
                                                             6145-69-3
     7664-38-2D, Phosphoric acid, esters with fatty alcs.
                                                             9003-05-8,
                     9004-34-6D, Cellulose, derivs.
                                                       21482-16-6
     Polyacrylamide
                                                                    24937-14-2,
```

24991-23-9 Poly(β-alanine) 25104-18-1 25513-34-2, 25513-46-6, Poly(glutamic acid) Poly(β-alanine) 25608-40-6, Poly(aspartic acid) 25618-55-7D, dodecyloxyalkyl ethers 25619-78-7, Polytyrosine 25667-16-7, Polytyrosine 26063-13-8, Poly(aspartic acid) 34361-91-6, Tartraldehyde 38000-06-5 41672-81-5 129145-57-9 40031-31-0, Erythrulose RL: BIOL (Biological study) (cosmetic or pharmaceutical foams containing) IT 25619-78-7, Polytyrosine 25667-16-7, Polytyrosine RL: BIOL (Biological study) (cosmetic or pharmaceutical foams containing) RN25619-78-7 HCAPLUS CN L-Tyrosine, homopolymer (9CI) (CA INDEX NAME) CM 1 CRN 60-18-4 CMF C9 H11 N O3

Absolute stereochemistry. Rotation (-).

RN 25667-16-7 HCAPLUS
CN Poly[imino[(1S)-1-[(4-hydroxyphenyl)methyl]-2-oxo-1,2-ethanediyl]] (9CI)
(CA INDEX NAME)

L23 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN AN 1986:466280 HCAPLUS DN 105:66280 ED Entered STN: 23 Aug 1986 Cosmetics or pharmaceuticals containing a niosome and at least one ΤI water-soluble polyamide IN Handjani, Rose Marie; Ribier, Alain; Vanlerberghe, Guy; Zabotto, Arlette; Griat, Jacqueline Oreal S. A. , Fr. PA SO Ger. Offen., 33 pp. CODEN: GWXXBX DT Patent LΑ German IC ICM A61K009-08 A61K007-00; A61K007-32; A61K007-40; A61K007-46; A61K031-00; A61K031-765; A61K031-785; A61K037-02; A61K037-22; A61K037-48;

A01N025-04

CC 62-6 (Essential Oils and Cosmetics)

Section cross-reference(s): 63

FAN.CNT 1

PATENT NO.		KIND	DATE	APPLICATION NO.	DATE
PI DE 3537723		A1	19860424	DE 1985-3537723	19851023
DE 3537723					
FR 2571963			19860425	FR 1984-16312	19841024
FR 2571963		B1	19870710		
US 4830857			19890516	US 1985-789775	19851021
BE 903509		A1		BE 1985-215773	
AU 8549006		A1	19860515	AU 1985-49006	19851023
AU 580805		B2	19890202		
NL 8502901		A	19860516	NL 1985-2901	19851023
GB 2166107		A1	19860430	GB 1985-26284	19851024
GB 2166107		B2	19880720		
JP 61178909		A2	19860811	JP 1985-236540	19851024
JP 04013322			19920309		
ES 548168		A1	19861116	ES 1985-548168	19851024
CH 665772		Α	19880615	CH 1985-4586	19851024
CA 1273870		A1	19900911	CA 1985-493711	19851024
PRAI FR 1984-163	12	Α	19841024		
CLASS					
PATENT NO.	CLASS	PATENT	FAMILY CLASS	IFICATION CODES	
DE 3537723	ICM	A61K009	-08		
	ICS	A61K007	-00; A61K007	-32; A61K007-40; A61K00)7-46;
		A61K031	-00; A61K031	-765; A61K031-785; A61E	(037-02;
		A61K037	-22; A61K037	-48; A01N025-04	
US 4830857	NCL	424/450	.000; 264/00	4.100; 264/004.600; 424	1/417.000;
		428/402	.200		
AB A compositi	on for d	cosmetic	or pharmace	utical use contains, in	n an aqueous

AB A composition for cosmetic or pharmaceutical use contains, in an aqueous medium,

2-10 weight% spherules of ≥ 1 nonionic amphiphilic lipid and (in the H2O phase) ≥ 1 H2O-soluble polyamide of mol. weight 1000-200,000 at

 $0.01\mbox{--}10\mbox{\%}$ concentration relative to the total composition weight. Thus, dry skin was

successfully treated in humans by topical application of a composition containing

an aqueous dispersion of niosomes (10,000 Å diameter; nonionic amphiphilic lipid [R-[OCH2CH(CH2OH)nOH; R = hexadecyl, n = average 3] 3.8, cholesterol 3.8, dicetyl phosphate 0.4, Me p-hydroxybenzoate 0.3, glycerol 3.0, H2O 35.5 g), aqueous (20%) poly- β -alanine (mol. weight 50,000) 7 and sesame oil 25 g (to make an oil-in-water emulsion), perfume 0.4, Carbopol 940 0.4, triethanolamine 0.4 and H2O (salt-free) 20 g.

ST niosome polyamide compn cosmetic pharmaceutical

IT Albumins, blood serum

Polyamides, biological studies

Protein hydrolyzates

Proteins

RL: BIOL (Biological study)

(cosmetic and pharmaceutical compns. containing niosomes and)

IT Collagens, compounds

Gelatins, compounds

RL: BIOL (Biological study)

(hydrolyzates, cosmetic and pharmaceutical compns. containing niosomes and)

IT Lactalbumins

RL: BIOL (Biological study)

 $(\alpha$ -, cosmetic and pharmaceutical compns. containing niosomes and)

IT 9003-05-8 24937-14-2 24991-23-9 25104-18-1 25513-34-2 25513-46-6 25608-40-6 **25619-78-7 25667-16-7** 26063-13-8 38000-06-5

RL: BIOL (Biological study)

(cosmetic and pharmaceutical compns. containing niosomes and)

IT 51-35-4 56-81-5, uses and miscellaneous 57-88-5, biological studies 25322-68-3D, esters 25618-55-7D, esters

RL: BIOL (Biological study)

(niosomes containing, cosmetic and pharmaceutical compns. containing polyamides

and)

IT 25619-78-7 25667-16-7

RL: BIOL (Biological study)

(cosmetic and pharmaceutical compns. containing niosomes and)

RN 25619-78-7 HCAPLUS

CN L-Tyrosine, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 60-18-4 CMF C9 H11 N O3

Absolute stereochemistry. Rotation (-).

RN 25667-16-7 HCAPLUS

CN Poly[imino[(1S)-1-[(4-hydroxyphenyl)methyl]-2-oxo-1,2-ethanediyl]] (9CI) (CA INDEX NAME)

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STRUCTURE FILE UPDATES: 10 OCT 2005 HIGHEST RN 864908-12-3 DICTIONARY FILE UPDATES: 10 OCT 2005 HIGHEST RN 864908-12-3

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TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

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* The CA roles and document type information have been removed from *

* the IDE default display format and the ED field has been added, *

* effective March 20, 2005. A new display format, IDERL, is now *

* available and contains the CA role and document type information. *

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

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L40 ANSWER 1 OF 4 REGISTRY COPYRIGHT 2005 ACS on STN

RN 801200-00-0 REGISTRY

ED Entered STN: 22 Dec 2004

CN Tyrosine, N-[N-(N-L-tyrosyl-L-tyrosyl)-L-tyrosyl]-, methyl ester, L(8CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C37 H40 N4 O9

CI COM

SR CA

RELATED SEQUENCES AVAILABLE WITH SEQLINK

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L40 ANSWER 2 OF 4 REGISTRY COPYRIGHT 2005 ACS on STN

RN 64808-83-9 REGISTRY

ED Entered STN: 16 Nov 1984

CN L-Tyrosine, L-tyrosyl-L-tyrosyl-L-tyrosyl- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN L-Tyrosine, N-[N-(N-L-tyrosyl-L-tyrosyl)-L-tyrosyl]-

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C36 H38 N4 O9

CI COM

LC STN Files: CA, CAPLUS, USPATFULL

RELATED SEQUENCES AVAILABLE WITH SEQLINK

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE)

4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 135:122743

REFERENCE 2: 129:257340

REFERENCE 3: 118:229754

REFERENCE 4: 38:27136

L40 ANSWER 3 OF 4 REGISTRY COPYRIGHT 2005 ACS on STN

RN 13075-43-9 REGISTRY

ED Entered STN: 16 Nov 1984

CN Glycine, glycylglycylglycyl-, methyl ester (7CI, 9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Glycine, N-[N-(N-glycylglycyl)glycyl]-, methyl ester (8CI)

FS 3D CONCORD; PROTEIN SEQUENCE

MF C9 H16 N4 O5

CI COM

LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS
(*File contains numerically searchable property data)

jan delaval - 11 october 2005

RELATED SEQUENCES AVAILABLE WITH SEQLINK

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

9 REFERENCES IN FILE CA (1907 TO DATE) 9 REFERENCES IN FILE CAPLUS (1907 TO DATE)

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:237598

REFERENCE 2: 131:322900

REFERENCE 3: 129:68017

REFERENCE 4: 127:140310

REFERENCE 5: 126:343849

REFERENCE 6: 79:19229

REFERENCE 7: 65:40212

REFERENCE 8: 49:64475

REFERENCE 9: 46:66800

L40 ANSWER 4 OF 4 REGISTRY COPYRIGHT 2005 ACS on STN

RN 637-84-3 REGISTRY

ED Entered STN: 16 Nov 1984

CN Glycine, glycylglycylglycyl- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Glycine, N-[N-(N-glycylglycyl)glycyl]- (6CI, 7CI, 8CI) OTHER NAMES:

CN (Triglycyl)glycine

CN 10: PN: WO03093478 PAGE: 56 unclaimed sequence

134: PN: JP2005002106 SEQID: 82 unclaimed protein

CN 1637: PN: WO2004024088 SEQID: 1640 claimed protein

CN 188: PN: US20040096926 SEQID: 211 unclaimed sequence

CN 1: PN: US20050181447 SEQID: 1 unclaimed sequence

CN 21: PN: WO0234909 SEQID: 22 unclaimed protein

CN 30: PN: US20030027247 SEQID: 30 unclaimed protein

CN 33: PN: FR2860236 PAGE: 10 claimed protein

CN 33: PN: US20050085417 SEQID: 33 unclaimed sequence

CN 36: PN: WO03087129 SEQID: 37 claimed protein

CN 40: PN: FR2860237 SEQID: 28 unclaimed protein

CN 4: PN: WO0035952 SEQID: 4 unclaimed protein CN 6: PN: WO02057435 PAGE: 9 unclaimed sequence

CN 73: PN: WO2004026329 SEQID: 284 unclaimed protein

CN Gly4

CN

CN Glycine tetrapeptide

CN Glycylglycylglycine

CN H-Gly-Gly-Gly-OH

```
CN NSC 89178
```

CN Tetraglycine

FS 3D CONCORD; PROTEIN SEQUENCE

DR 115921-30-7

MF C8 H14 N4 O5

CI COM

LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, DETHERM*, EMBASE, GMELIN*, IFICDB, IFIPAT, IFIUDB, MEDLINE, NIOSHTIC, TOXCENTER, USPAT2, USPATFULL (*File contains numerically searchable property data)

Other Sources: EINECS**

(**Enter CHEMLIST File for up-to-date regulatory information)

RELATED SEQUENCES AVAILABLE WITH SEQLINK

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

580 REFERENCES IN FILE CA (1907 TO DATE)

64 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

580 REFERENCES IN FILE CAPLUS (1907 TO DATE)

34 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 143:222558

REFERENCE 2: 143:173125

REFERENCE 3: 142:417150

REFERENCE 4: 142:409953

REFERENCE 5: 142:349061

REFERENCE 6: 142:349018

REFERENCE 7: 142:329887

REFERENCE 8: 142:296757

REFERENCE 9: 142:240703

REFERENCE 10: 142:238639

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L43 ANSWER 1 OF 5 REGISTRY COPYRIGHT 2005 ACS on STN

RN 134982-28-8 REGISTRY

ED Entered STN: 19 Jul 1991

FS PROTEIN SEQUENCE

MF C8 H14 N4 O5 . C2 H F3 O2

SR CA

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT (*File contains numerically searchable property data)

RELATED SEQUENCES AVAILABLE WITH SEQLINK

CM 1

CRN 637-84-3 CMF C8 H14 N4 O5

RELATED SEQUENCES AVAILABLE WITH SEQLINK

CM 2

CRN 76-05-1 CMF C2 H F3 O2

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 115:92885

L43 ANSWER 2 OF 5 REGISTRY COPYRIGHT 2005 ACS on STN

RN 84015-45-2 REGISTRY

ED Entered STN: 16 Nov 1984

CN Glycine, glycylglycylglycyl-, methyl ester, monohydrochloride (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Glycine, N-[N-(N-glycylglycyl)glycyl]-, methyl ester, monohydrochloride

FS PROTEIN SEQUENCE

MF C9 H16 N4 O5 . Cl H

LC STN Files: BEILSTEIN*, CA, CAPLUS

(*File contains numerically searchable property data)

CRN (13075-43-9)

RELATED SEQUENCES AVAILABLE WITH SEQLINK

HCl

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 98:34937

L43 ANSWER 3 OF 5 REGISTRY COPYRIGHT 2005 ACS on STN

RN 38495-13-5 REGISTRY

ED Entered STN: 16 Nov 1984

CN Glycine, N-[N-(N-glycylglycyl)glycyl]-, hydrochloride (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Tetraglycine hydrochloride

FS PROTEIN SEQUENCE

MF C8 H14 N4 O5 . x Cl H

LC STN Files: CA, CAPLUS

CRN (637-84-3)

RELATED SEQUENCES AVAILABLE WITH SEQLINK

•x HCl

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 77:148820

L43 ANSWER 4 OF 5 REGISTRY COPYRIGHT 2005 ACS on STN

RN 38126-71-5 REGISTRY

ED Entered STN: 16 Nov 1984

CN Glycine, N-[N-(N-glycylglycyl)glycyl]-, monohydrochloride (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Tetraglycine hydrochloride

FS PROTEIN SEQUENCE

MF C8 H14 N4 O5 . C1 H

LC STN Files: CA, CAPLUS

CRN (637-84-3)

RELATED SEQUENCES AVAILABLE WITH SEQLINK

HCl

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 77:152548

L43 ANSWER 5 OF 5 REGISTRY COPYRIGHT 2005 ACS on STN

RN 27538-63-2 REGISTRY

ED Entered STN: 16 Nov 1984

CN Tyrosine, N-[N-(N-L-tyrosyl-L-tyrosyl)-L-tyrosyl]-, methyl ester, monohydrochloride, L- (8CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C37 H40 N4 O9 . Cl H

LC STN Files: CA, CAPLUS

CRN (801200-00-0)

RELATED SEQUENCES AVAILABLE WITH SEQLINK

Absolute stereochemistry.

● HCl

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 73:15215

=> => fil hcaplus FILE 'HCAPLUS' ENTERED AT 16:09:30 ON 11 OCT 2005 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

jan delaval - 11 october 2005

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FILE COVERS 1907 - 11 Oct 2005 VOL 143 ISS 16 FILE LAST UPDATED: 10 Oct 2005 (20051010/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d all hitstr tot

L55 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1998:389084 HCAPLUS

DN 129:58620

ED Entered STN: 25 Jun 1998

TI Dentifrice compositions containing peptides as endotoxin neutralizing agents

IN Sasaki, Shuji

PA Lion Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp. CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM A61K007-16

CC 62-7 (Essential Oils and Cosmetics)
Section cross-reference(s): 63

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
PI JP 10158131	A2	19980616	JP 1996-330350	19961126		
PRAI JP 1996-330350		19961126				
CLASS						

PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES

JP 10158131 ICM A61K007-16

AB The compns. contain amino acids or di, tri-, or tetrapeptides comprising Gly, Ala, Leu, His, and/or Pro as neutralizing agents for endotoxins of periodontal disease bacteria. The compns. are used in the forms of toothpastes, mouthwashes, confectioneries such as candies, chewing gums, etc. L-Leucylglycylglycine (I) showed 50.9% inhibition against Actinobacillus actinomycetemcomitans Y4 LPS. A toothpaste containing I was also formulated.

ST dentifrice glycine peptide Actinomycetes endotoxin neutralizer; oligopeptide periodontal disease endotoxin neutralizer dentifrice; Porphyromonas endotoxin neutralizer oligopeptide dentifrice

IT Chewing gum

(anticariogenic dentifrices; dentifrices containing specific amino acids or

oligopeptides as neutralizing agents for periodontal disease bacteria endotoxins)

Candy IT

Mouthwashes

Mouthwashes

(anticariogenic; dentifrices containing specific amino acids or oligopeptides as neutralizing agents for periodontal disease bacteria endotoxins)

IΤ Dentifrices

Dentifrices

(chewing gums, anticariogenic; dentifrices containing specific amino acids or oligopeptides as neutralizing agents for periodontal disease bacteria endotoxins)

Antibacterial agents TT

Dentifrices

Haemophilus actinomycetemcomitans

Porphyromonas gingivalis

(dentifrices containing specific amino acids or oligopeptides as neutralizing agents for periodontal disease bacteria endotoxins)

Amino acids, biological studies IT

> RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(dentifrices containing specific amino acids or oligopeptides as neutralizing agents for periodontal disease bacteria endotoxins)

IT Chewing qum

(dentifrices, anticariogenic; dentifrices containing specific amino acids or oligopeptides as neutralizing agents for periodontal disease bacteria endotoxins)

Periodontium IT

> (disease; dentifrices containing specific amino acids or oligopeptides as neutralizing agents for periodontal disease bacteria endotoxins)

IT

IT

RL: ADV (Adverse effect, including toxicity); BIOL (Biological study) (endotoxins; dentifrices containing specific amino acids or oligopeptides as neutralizing agents for periodontal disease bacteria endotoxins)

IT Drug delivery systems

(ointments, oral; dentifrices containing specific amino acids or oligopeptides as neutralizing agents for periodontal disease bacteria endotoxins)

Peptides, biological studies IT

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(oligopeptides; dentifrices containing specific amino acids or oligopeptides as neutralizing agents for periodontal disease bacteria endotoxins)

61-90-5, L-Leucine, biological studies 71-00-1, L-Histidine, biological IT 556-50-3, Glycylglycine 637-84-3, Glycylglycylglycine 686-50-0, L-Leucylglycine 704-15-4,

Glycyl-L-proline 869-19-2, Glycyl-L-leucine 1187-50-4,

2867-20-1, DL-Alanyl-DL-alanine 7298-84-2, L-Leucylglycylglycine

L-Leucyl-L-alanine 7451-76-5, Glycylglycyl-L-histidine 7763-65-7,

L-Histidyl-L-leucine

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(dentifrices containing specific amino acids or oligopeptides as neutralizing agents for periodontal disease bacteria endotoxins) 637-84-3, Glycylglycylglycylglycine

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(dentifrices containing specific amino acids or oligopeptides as neutralizing agents for periodontal disease bacteria endotoxins)

RN 637-84-3 HCAPLUS

CN Glycine, glycylglycylglycyl- (9CI) (CA INDEX NAME)

```
ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN
L55
AN
    1995:686891 HCAPLUS
DN
    123:93387
    Entered STN: 20 Jul 1995
ED
    Peptides as antibacterial agents
TI
IN
    Bhakoo, Manmohan
PA
    Unilever PLC, UK; Unilever N. V.
so
    PCT Int. Appl., 31 pp.
    CODEN: PIXXD2
DT
    Patent
LA
    English
IC
    ICM A61K031-785
    ICS C08G069-10
CC
    63-8 (Pharmaceuticals)
    Section cross-reference(s): 17, 62
FAN.CNT 1
    PATENT NO.
                             DATE
                                    APPLICATION NO. DATE
                      KIND
    _____
                      _ _ _ _
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                                       -----
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                                     WO 1994-EP3234 19940928
    WO 9509638
                             19950413
PΙ
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           GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN, MW,
           NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, UZ, VN
        RW: KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU,
           MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN,
    CA 2169084
                             19950413
                                        CA 1994-2169084
    AU 9478106
                       A1
                             19950501
                                       AU 1994-78106
                                                             19940928
    AU 695290
                       B2
                             19980813
    EP 722327
                      A1
                             19960724
                                        EP 1994-928834
                                                             19940928
                      B1
                             20001122
        R: CH, DE, ES, FR, GB, IT, LI, NL, SE
               A2
    HU 74379
                             19961230 HU 1996-873
                                                             19940928
    BR 9407770
                             19970318
                                      BR 1994-7770
                       Α
                                                            19940928
    JP 09503216
                      T2
                             19970331
                                       JP 1994-510597
                                                            19940928
    ES 2153861
                      Т3
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                                                            19940928
                      B2
                                       JP 1995-510597
    JP 3162078
                             20010425
                                                            19940928
    US 5629282
                             19970513
                                       US 1994-317275
                      Α
                                                            19941004
                             19960409
    ZA 9407788
                      A
                                       ZA 1994-7788
                                                            19941005
PRAI GB 1993-20443
                      Α
                             19931005
    GB 1993-25839
                      Α
                             19931217
    WO 1994-EP3234
                      W
                             19940928
CLASS
               CLASS PATENT FAMILY CLASSIFICATION CODES
PATENT NO.
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WO 9509638
               ICM
                     A61K031-785
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ICS
                        C08G069-10
 WO 9509638
                 ECLA
                        A61K031/785; C08G069/10
 US 5629282
                 NCL
                        514/002.000; 134/025.300; 422/032.000; 424/054.000;
                        426/335.000; 426/532.000; 528/328.000; 530/300.000;
                        530/350.000
AB
     Antibacterial agents are identified as peptides having a mol. weight
     ≥5 kD, comprising ≥15% by number of residues of arginine,
     lysine, ornithine or a mixture thereof and ≥15% by number of residues of
     arginine, lysine, ornithine, phenylalanine, tyrosine, tryptophan or a
     mixture thereof. Although the invention is described with reference to use in
     the fields of food and oral hygiene, the invention has particular utility
     in the field of household and/or industrial hygiene. Antibacterial
     compns. further contain nonionic surfactants. For example, an
     antibacterial activity of Arg-Trp copolymer (31kD) was tested with
     Staphylococcus aureus, Escherichia coli, and Pseudomonas aeruginosa.
ST
     peptide surfactant bactericide
IT
     Bactericides, Disinfectants, and Antiseptics
     Food
     Surfactants
        (antibacterial compns. containing peptides and surfactants)
TТ
     Peptides, biological studies
     RL: BUU (Biological use, unclassified); FFD (Food or feed use); NUU (Other
     use, unclassified); BIOL (Biological study); USES (Uses)
        (antibacterial compns. containing peptides and surfactants)
     151-21-3, Sodium dodecyl sulfate, biological studies
TT
                                                             9005-65-6, Tween 80
     9083-53-8, Triton
                         24937-47-1, Polyarginine
                                                    24937-49-3, Polyornithine
     25104-12-5, Polyornithine. 25104-18-1, Polylysine
                                                          25191-13-3,
     Polyproline
                                              25213-33-6, Polyproline
                   25212-18-4, Polyarginine
     25619-78-7, Polytyrosine 25667-16-7, Polytyrosine
     25821-52-7, Polyserine 25821-94-7, Polyserine
                                                       26062-48-6,
     Polyhistidine
                     26700-39-0
                                  26701-37-1
                                               26854-81-9, Polyhistidine
     27456-64-0
                27813-82-7, Polytryptophan
                                               29796-29-0
                                                            29861-38-9
     30425-11-7
                  31325-38-9
                              31325-39-0
                                            33540-31-7, Polytryptophan
     38000-06-5, Polylysine
                              107408-09-3
                                            108820-26-4
                                                          131601-01-9
     165123-98-8
                   165123-99-9
                                 165305-40-8
                                               165455-84-5
     RL: BUU (Biological use, unclassified); FFD (Food or feed use); NUU (Other
     use, unclassified); BIOL (Biological study); USES (Uses)
        (antibacterial compns. containing peptides and surfactants)
IT
     25619-78-7, Polytyrosine 25667-16-7, Polytyrosine
     RL: BUU (Biological use, unclassified); FFD (Food or feed use); NUU (Other
     use, unclassified);            BIOL (Biological study);            USES (Uses)
        (antibacterial compns. containing peptides and surfactants)
RN
     25619-78-7 HCAPLUS
CN
     L-Tyrosine, homopolymer (9CI) (CA INDEX NAME)
     CM
          1
     CRN 60-18-4
     CMF C9 H11 N O3
Absolute stereochemistry. Rotation (-).
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25667-16-7 HCAPLUS RN

CN Poly[imino[(1S)-1-[(4-hydroxyphenyl)methyl]-2-oxo-1,2-ethanediyl]] (9CI) (CA INDEX NAME)

```
ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN
L55
AN
     1994:23568 HCAPLUS
DN
     120:23568
ED
     Entered STN: 22 Jan 1994
     Remedy for dermatopathy and metallothionein induction
ΤI
IN
     Otsu, Yoshiro; Arima, Yaeno; Nakajima, Katsuyuki; Adachi, Masakazu;
     Muramatsu, Tsutomu; Hanada, Katsumi
PA
     Otsuka Pharmaceutical Co., Ltd., Japan; Japan Immunoresearch Laboratories
     Co., Ltd.
SO
     PCT Int. Appl., 66 pp.
     CODEN: PIXXD2
DT
     Patent
LA
     Japanese
IC
     ICM A61K031-12
     ICS A61K031-19; A61K031-195; A61K031-44; A61K037-02
CC
     1-12 (Pharmacology)
     Section cross-reference(s): 27, 62, 63
FAN.CNT 1
     PATENT NO.
                        KIND
                               DATE
                                           APPLICATION NO.
                                                                 DATE
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PΙ
     WO 9314748
                               19930805
                                           WO 1993-JP130
                                                                 19930203
                         A1
        W: AU, CA, JP, KR, US
        RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
     CA 2107461
                         AΑ
                               19930804
                                           CA 1993-2107461
                                                                 19930203
    AU 9334629
                                           AU 1993-34629
                                                                 19930203
                         A1
                               19930901
     AU 667704
                         B2
                               19960404
                               19940223
                                           EP 1993-903301
     EP 583479
                         A1
                                                                 19930203
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE
                                           US 1993-122585
    US 5582817
                         Α
                               19961210
                                                                 19931001
PRAI JP 1992-17612
                         Α
                               19920203
     JP 1992-113633
                         Α
                               19920506
     JP 1992-325633
                         Α
                               19921204
     JP 1992-348618
                         Α
                               19921228
     WO 1993-JP130
                               19930203
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                CLASS PATENT FAMILY CLASSIFICATION CODES
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WO 9314748
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                       A61K031-12
                ICS
                       A61K031-19; A61K031-195; A61K031-44; A61K037-02
AU 9334629
                ECLA
                       A61K008/26; A61K008/35; A61K008/368; A61K008/44;
                       A61K008/49C4; A61K008/64; A61K008/67F3; A61K031/315;
                       A61K031/40; A61K031/405; A61K031/415; A61K031/44;
                       A61K038/04; A61K038/06A; A61Q017/04; A61Q019/00
EP 583479
                ECLA
                       A61K008/26; A61K008/35; A61K008/368; A61K008/44;
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A61K008/49C4; A61K008/64; A61K008/67F3; A61K031/315;

A61K031/40; A61K031/405; A61K031/415; A61K031/44;
A61K038/04; A61K038/06A; A61Q017/04; A61Q019/00

US 5582817

NCL 424/059.000; 514/188.000; 514/494.000; 546/005.000
ECLA A61K008/26; A61K008/35; A61K008/368; A61K008/44;
A61K008/49C4; A61K008/64; A61K008/67F3; A61K031/315;
A61K031/40; A61K031/405; A61K031/415; A61K031/44;
A61K038/04; A61K038/06A; A61Q017/04; A61Q019/00

OS MARPAT 120:23568

GI

AB A zinc salt, a zinc complex or a zinc complex salt of a compound selected from among a pyridine-carboxylic acid represented by general formula (I) (R = H, OH, nitro, halo, etc.], nicotinamide, picolinamide, 3,4-dihydroxybenzoic acid, an amino acid, a peptide and hinokitiol has the effects of inducing metallothionein and inhibiting sunburn cell production, thus being useful as a cosmetic or medicine for treating or preventing sunburn and treating dermatopathy, radiation damage, etc.

Bis(2,5-pyridinedicarboxylate)zinc(II) di-Na salt (II) was prepared by treating 2,5-pyridinedicarboxylic acid with Na2CO3 and zinc acetate. II (1% solution) applied topically to UV-irradiated hairless mice prevented the UV radiation damage. Pharmaceutical and cosmetic formulation

ST zinc pyridinecarboxylate dermatopathy treatment; radiation damage control zinc pyridinecarboxylate; sunburn treatment zinc pyridinecarboxylate

IT Radiation

(damage by, treatment of, with zinc pyridinecarboxylate or other zinc compds., metallothionein induction in relation to)

IT Metallothioneins

RL: PRP (Properties)

(induction of, with zinc pyridinecarboxylate or other zinc compds.)

IT Skin, disease

Sunburn and Suntan

(treatment of, with zinc pyridinecarboxylate or other zinc compds., metallothionein induction in relation to)

IT Sunscreens

(zinc pyridinecarboxylate or zinc compds. as)

IT Peptides, biological studies

RL: BIOL (Biological study)

(zinc salts, as metallothionein inducers and sunburn inhibitors)

IT Pharmaceutical dosage forms

(ointments, of zinc compds., for dermatopathy)

IT Pharmaceutical dosage forms

(tablets, of zinc compds., for dermatopathy)

IT Amino acids, compounds

RL: BIOL (Biological study)

(zinc salts, as metallothionein inducers and sunburn inhibitors)

TT 52-90-4D, L-Cysteine, zinc complexes 70-18-8D, zinc complexes 80-68-2D, DL-Threonine, zinc complexes 556-33-2D, zinc complexes 556-50-3D, zinc complexes 632-20-2D, D-Threonine, zinc complexes 637-84-3D, zinc complexes 921-01-7D, D-Cysteine, zinc complexes

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1187-50-4D, zinc complexes
                                 3146-40-5D, zinc complexes
                                                             3374-22-9D.
     DL-Cysteine, zinc complexes 4294-25-1D, zinc complexes
                                                              7440-66-6D,
     Zinc, complexes with amino acids and peptides
                                                                14281-83-5
                                                  14221-52-4
                14877-93-1 15276-22-9
     14647-06-4
                                          15281-32-0
                                                       15523-09-8
     15740-03-1
                 15975-28-7
                              16037-56-2
                                          16561-87-8
                                                       21752-10-3
     23333-98-4
                 23333-99-5
                              28143-32-0
                                          31034-38-5
                                                       32594-06-2
                              36393-20-1
     32594-07-3
                 34992-53-5
                                          40816-51-1
                                                       40816-53-3
     51147-98-9
                 53446-41-6
                              64364-41-6
                                          68107-75-5
                                                       75598-18-4
                 77448-68-1
                              77519-24-5 102519-27-7 112983-87-6
     77340-82-0
                 151110-84-8 151138-11-3
     138641-21-1
                                             151138-13-5
                                                           151138-14-6
     151138-15-7
                  151138-16-8
                                151138-17-9
                                             151165-54-7
                                                           151165-55-8
     151214-06-1 151214-07-2 151214-08-3
                                             151214-09-4 151214-27-6
     151214-86-7
                  151214-87-8
                                151214-88-9
                                             151214-89-0 151214-90-3
     151214-91-4
                  151214-92-5
                                151214-93-6
                                             151214-94-7
                                                           151214-95-8
     151214-96-9
                  151214-97-0
                                152005-29-3
     RL: BIOL (Biological study)
        (as metallothionein inducer and sunburn inhibitor)
     98-92-0D, Nicotinamide, compds. 99-50-3D, 3,4-Dihydroxybenzoic acid,
IT
              499-44-5D, compds. 1452-77-3D, Picolinamide, compds.
     7440-66-6D, Zinc, compds. 32075-31-3D, Pyridinecarboxylic acid, compds.
     RL: BIOL (Biological study)
        (as metallothionein inducers and sunburn inhibitors)
IT
     3473-03-8P
                 17949-65-4P
                               151041-61-1P
                                            151282-38-1P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (preparation of, as metallothionein inducer and sunburn inhibitor)
IT
     51914-60-4P, Zinc nicotinate 151041-62-2P 151165-56-9P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (preparation of, as sunburn inhibitor and metallothionein inducer)
IT
     59-67-6, Nicotinic acid, reactions 71-00-1, L-Histidine, reactions
     98-92-0, Nicotinamide 99-50-3, 3,4-Dihydroxybenzoic acid
     2,5-Pyridinedicarboxylic acid 1452-77-3, Picolinamide
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, for sunburn inhibitor and metallothionein inducer preparation)
ΙT
     637-84-3D, zinc complexes
     RL: BIOL (Biological study)
        (as metallothionein inducer and sunburn inhibitor)
RN
     637-84-3 HCAPLUS
CN
     Glycine, glycylglycylglycyl- (9CI) (CA INDEX NAME)
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ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN
L55
     1992:433430 HCAPLUS
AN
DN
     117:33430
ED
     Entered STN:
                   26 Jul 1992
     Peptide-modified silicones as cosmetic ingredients
TТ
TN
     Yoshioka, Masato; Kamimura, Yoichi
PΑ
     Seiwa Oil and Chemetics Co., Ltd., Japan
SO
     Jpn. Kokai Tokkyo Koho, 19 pp.
     CODEN: JKXXAF
DT
     Patent
     Japanese
LA
IC
     ICM A61K007-00
     ICS A61K007-06
CC
     62-4 (Essential Oils and Cosmetics)
```

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PΙ	JP 03223207	A2	19911002	JP 1990-19939	19900129	
	JP 2748174	B2	19980506			
PRAT	TP 1990-19939		19900129			

CLASS

PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES

JP 03223207 ICM A61K007-00

GI

ICS

AB Bases for manufacturing skin on hair prepns. contain peptide-modified silicone derivs. to smoothen the skin and to soften and luster the hair. Thus, collagen peptide (mol. weight .apprx.3000) was reacted with I to give the product. A base for manufacturing skin and hair prepns. contained the above product 2.0, keratin hydrolyzate 3.0, polyoxyethylene lauryl ether 1.0, 99% EtOH 8%, perfumes q.s., and balance sterilized water.

ST base cosmetic peptide silicone; skin cosmetic base peptide silicone; hair prepn base peptide silicone

A61K007-06

IT Cosmetics

Hair preparations

Shampoos

(bases for, peptide-modified silicone-containing)

IT Cosmetics

(creams, bases for, peptide-modified silicone-containing)

IT Cosmetics

(depilatories, bases for, peptide-modified silicone-containing)

IT Cosmetics

(face masks, bases for, peptide-modified silicone-containing)

IT Collagens, compounds

RL: PREP (Preparation)

(hydrolyzates, reaction products, with silicones, preparation of, as bases for hair prepns. and skin cosmetics)

IT Siloxanes and Silicones, compounds

RL: PREP (Preparation)

(reaction products, with peptides, preparation of, as bases for hair prepns. and skin cosmetics)

IT Peptides, compounds

RL: PREP (Preparation)

(reaction products, with silicones, preparation of, as bases for hair prepns. and skin cosmetics)

IT Hair preparations

(wave-setting, bases for, peptide-modified silicone-containing)
IT 56-45-1DP, Serine, reaction products with silicones 56-89-3DP, Cystine, reaction products with silicones 74-79-3DP, Arginine, reaction products with silicones 147-85-3DP, Proline, reaction products with silicones 637-84-3DP, Glycylglycylglycylglycine, reaction products with silicones 138965-24-9DP, reaction products with peptides

RL: PREP (Preparation)

(preparation of, as bases for hair prepns. and skin cosmetics)
IT 637-84-3DP, Glycylglycylglycylglycine, reaction products with
silicones

RL: PREP (Preparation)

(preparation of, as bases for hair prepns. and skin cosmetics)

RN 637-84-3 HCAPLUS

CN Glycine, glycylglycylglycyl- (9CI) (CA INDEX NAME)

L55 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1982:148999 HCAPLUS

DN 96:148999

ED Entered STN: 12 May 1984

TI Sulfonated polyamino acids as dental plaque barriers

IN Sipos, Tibor

PA Johnson and Johnson Products, Inc., USA

SO U.S., 5 pp. CODEN: USXXAM

DT Patent

LA English

IC A61K007-16; C07C103-52

INCL 424056000

CC 62-7 (Essential Oils and Cosmetics)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	US 4314991	Α	19820209	US 1980-172353	19800725
	ZA 8107824	Α	19830629	ZA 1981-7824	19811111
	EP 79406	A1	19830525	EP 1981-305367	19811112
	R: AT, CH, DE,	GB, IT	, LI		
•	CA 1176795	A1	19841023	CA 1981-389866	19811112
	JP 58093725	A2	19830603	JP 1981-189392	19811127
PRAI	US 1980-172353		19800725		
OT 3 O	~				

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 4314991	IC	A61K007-16IC C07C103-52
US 4314991	INCL NCL	424056000 424/056.000; 530/324.000; 530/350.000; 930/021.000;

US 4314991 NCL 424/056.000; 530/324.000; 930/290.000

AB Sulfonated polyamino acids or their salts are useful for preventing the attachment of dental plaque to the teeth surface and can be applied using dentifrices, mouthwashes or other formulations. Thus poly(L-phenylalanine) sulfonic acid was prepared by the treatment of poly(L-phenylalanine) with liquid SO3 dissolved in a solution of tri-Et phosphate in CH2Cl2. This was then converted to the Na salt. The degree of sulfonation was 0.8 based on the amount of alkali consumed in the neutralization step. Mouthwashes and dentifrices are prepared containing polyamino acid sulfonates.

ST polyamino acid sulfonate dental plaque

IT Polyamides, compounds

RL: BIOL (Biological study)

(Ph group-containing, sulfonated, salts, dental plaque barriers, for dentifrices and mouthwashes)

IT Chewing gum

Dentifrices

Mouthwashes

(polyamino acid sulfonates as dental plaque barriers for)

IT Amino acids, polymers

RL: BIOL (Biological study)

(polymers, sulfonated, salts, dental plaque barriers, for dentifrices and mouthwashes)

IT 25035-14-7D, sulfonated, salts 25191-15-5D, sulfonated, salts

25248-59-3D, sulfonated, salts 25619-78-7D, sulfonated, salts

25667-16-7D, sulfonated, salts 30394-07-1D, sulfonated, salts

RL: BIOL (Biological study)

(dental plaque barrier agent, for dentifrices and mouthwashes)

IT 25619-78-7D, sulfonated, salts 25667-16-7D, sulfonated,

salts

RL: BIOL (Biological study)

(dental plaque barrier agent, for dentifrices and mouthwashes)

RN 25619-78-7 HCAPLUS

CN L-Tyrosine, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 60-18-4

CMF C9 H11 N O3

Absolute stereochemistry. Rotation (-).

RN 25667-16-7 HCAPLUS

CN Poly[imino[(1S)-1-[(4-hydroxyphenyl)methyl]-2-oxo-1,2-ethanediyl]] (9CI) (CA INDEX NAME)

=> d his

L1

(FILE 'HOME' ENTERED AT 15:33:42 ON 11 OCT 2005) SET COST OFF

FILE 'HCAPLUS' ENTERED AT 15:33:52 ON 11 OCT 2005

1 S US20020155991/PN OR (US2002-086451# OR FR2001-2979)/AP,PRN

E PHILIPPE M/AU

L2 326 S E3-E5, E25-E27

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                E PHILLIPPE M/AU
L3
             14 S E3-E5, E8
                E PHILLIPE M/AU
                E BENARD S/AU
L4
             15 S E3, E7
           4933 S (OREAL? OR LOREAL? OR L()OREAL?)/PA,CS
L5
                SEL RN L1
     FILE 'REGISTRY' ENTERED AT 15:36:07 ON 11 OCT 2005
L6
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                SEL RN 5-8
              4 S L6 NOT E9-E12
L7
L8
              3 S (D-TYROSINE OR L-TYROSINE OR DL-TYROSINE)/CN
                SEL RN
L9
            335 S E13-E15/CRN
            146 S L9 AND PMS/CI
L11
             1 S L10 AND CH40
L12
             43 S C3H7NO2 AND L10
L13
             2 S L12 NOT ALANINE
L14
             4 S L10 AND C2H5NO2
             6 S L10 AND C9H11NO3 AND 1/NC
L15
L16
             43 S L10 AND 2/NC
             54 S L10 NOT L11-L16
L17
               E (C9H9NO2)/MF
L18
             17 S E5
               SEL RN 14 15 17
L19
              3 S E1-E3
               E (C9H9NO2)/MF
L20
              2 S E6, E7
             12 S L11, L13, L15, L19
L21
     FILE 'HCAPLUS' ENTERED AT 15:53:55 ON 11 OCT 2005
L22
            265 S L21
L23
              4 S L22 AND L1-L5
     FILE 'REGISTRY' ENTERED AT 15:54:33 ON 11 OCT 2005
     FILE 'HCAPLUS' ENTERED AT 15:54:41 ON 11 OCT 2005
                SEL RN L23
     FILE 'REGISTRY' ENTERED AT 15:55:16 ON 11 OCT 2005
             42 S E1-E50 NOT L6
L24
L25
             40 S L24 NOT L21
               E C8H14N4O5/MF
             66 S E3
L26
                E C9H16N4O5/MF
             59 S E3
L27
            125 S L26, L27
L28
             61 S L28 AND NR>=1
L29
L30
             64 S L28 NOT L29
             3 S L30 AND METHYL ESTER
L31
             8 S L30 AND GLYCYLGLYCYLGLYCYL
L32
              8 S L31, L32 NOT D/ELS
L33
              6 S L33 NOT ALANINE
L34
               SEL RN 1-4
              2 S L34 NOT E1-E4
L35
               E C36H38N4O9/MF
L36
              9 S E3 AND 46.150.18/RID AND 4/NR
L37
              1 S L36 AND TYROSYL
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E C37H40N4O9/MF
L38
              2 S E3 AND 46.150.18/RID AND 4/NR
L39
              1 S L38 AND TYROSYL
L40
              4 S L35, L37, L39
     FILE 'REGISTRY' ENTERED AT 16:04:14 ON 11 OCT 2005
                SEL RN
L41
             17 S E1-E4/CRN
              6 S L41 NOT (CONJUGATE OR MXS/CI OR COMPD)
L42
L43
              5 S L42 NOT ALANINE
L44
              9 S L40, L43
                SAV L44 GEORGE086/A
                SAV L21 GEORGE086A/A
     FILE 'HCAPLUS' ENTERED AT 16:06:38 ON 11 OCT 2005
              0 S L44 AND L1-L5
L45
L46
            858 S L44, L22
              9 S L46 AND COSMETIC?/SC,SX,CW,CT,BI
L47
L48
              1 S L46 AND ?WRINKL?
L49
              9 S L47, L48
              1 S L46 (L) COS/RL
L50
L51
              9 S L49, L50
L52
             12 S L46 AND COSMETICS+OLD, NT, PFT, RT/CT
L53
             14 S L51, L52
L54
             10 S L53 NOT L23
L55
              5 S L54 AND 62/SC, SX
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FILE 'HCAPLUS' ENTERED AT 16:09:30 ON 11 OCT 2005

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